

the CARRIER

W6CX



the MOUNT DIABLO AMATEUR RADIO CLUB

VOLUME XXXVII - ISSUE 8 - AUGUST 1990

TUNING AROUND

by Derek Brown N6CUK, President

For those of you who didn't attend the July meeting, you missed a real treat! George Zafiropolis, KJ6VU, gave an excellent presentation on the restoration of the Lightship "Relief", which is currently berthed at a commercial pier in the Oakland estuary. It looks like a lot of effort was put into restoring it, considering the shape it was in when they started. Diving, scraping, painting, more scraping and painting, rewiring, replumbing... Although the pier is closed to the general public, you should be able to contact KJ6VU in San Jose for more information.

The picnic was a rousing success, too! The games and transmitter hunt were a lot of fun, even though the transmitter hunt went a little faster than expected - it took 5 minutes to find the bunny, compared with most of 45 minutes last year! It looked like the hunt got started a little early with the CB antenna being poked around in the tree; I'd never seen a "bunny" treed before (they did get the frisbees down, by the way). Many thanks are due to George WB6OFH and Lauren WA6CIE for the excellent job they did in setting it up for the Club.

Speaking of transmitter hunts - what do you think about having periodic transmitter hunts in the area? (See Richard Shappee's article about TX hunts in El Paso in this issue !). It sounds like there are quite a few people in the Club who are interested in this, having taken part in these with other Clubs. Any more interest? I expect there probably will be, with the Club having almost 350 members now (WOW)!!!

It's now the time of year when we must give some thought as to next year's Officers. I'm urging every one of you to consider serving as an Officer next year. Our nominating committee this year consists of Paul N6PAC, Dick KT6X, and Pete N6QGN - if you are interested in being an Officer (or a Committee Chairperson), please give any of them a call. With our continued growth, we need interested members to serve in these positions to help keep the Club the best that it can be. If you haven't served before, you may be able to provide a fresh outlook on the Club's direction. With the record number of members we now have, I know there are people out there willing to help the Club with their expertise and abilities... how about it ?

CLUB PICNIC - JULY 22, 1990 ANOTHER CLUB CLASSIC

The toughest job at the 1990 annual picnic was judging the direction finding equipment built by ten Club members so they could participate in the transmitter hunt.

The distinguished BLUE RIBBON PANEL OF JUDGES; their eminences June Blenderman N6SWP, Dick Schulze AA6DL, Derek Brown N6CUK, and Miles Slape W6QEN, had the task of awarding prizes for the 3 best DF rigs. The PANEL decided to award prizes to all 10 contestants, the entries were so exceptional. Three prizes were awarded, and the remaining 7 will be awarded at the next regular Club meeting August 17 where the DF's will be exhibited for Club members. Come to the meeting and see who won and why.

George Roush WB6OFH and XYL Bertha arrived at the picnic area before 6 A.M. to reserve the space (park rules). It was fortunate for us they did because, within five minutes after George arrived, two other groups wanted the area. Thanks George and Bertha !!

The 2 Tugs-of-War were won by the contestants that included Lauren Styles WA6CIE as their anchor man !!

George and Bertha Roush, one of 12 couples in the 1st water balloon toss, were the winners and only dry contestants. The 2nd toss was won by Brian Gansz and Trevor Lisle, the 3rd by Mark Curley N6MIN and Nancy Potter.

As egg relay contestants, Mark and Nancy were winners twice. Other winners were Brian Gansz and Trevor Lisle, and Larry Gansz and XYL Pat.

The egg-toss contest was won by (1) Larry Gansz and Pat, and (2) Lauren Styles and son Christopher. Lauren also conducted games for the children present, 12 and under.

President Derek presided over the games.

The transmitter hunt was won by Greg Nelson WB6MBD, who used a

frisbie as a reflector on his DF ! (It took him under 5 minutes to find the rabbit). Second place went to Richard Shaffee WB5HQJ.

The hidden transmitter was again ably handled by Mike Whitten KB6FHC and YL Rose.

It was all over about 4 P.M. and we look forward to the next picnic next year. Thanks George !!!

A REQUEST FROM GEORGE ROUSH KB6OFH

Not all of the SODA POP purchased for the picnic was used. It will be sold at monthly Club meetings.....

Please support the Club.
Buy soda pop at the Club meetings.

MORE CLUB TRANSMITTER HUNTS ??

Club member Richard Shappee WA5HQJ, has attended the last two Club picnics and participated in the transmitter hunts using impressive DF equipment. He states the 'hunt' is a lot of fun and thinks interest may be generated for Club transmitter hunts at times other than the annual Club picnic.

He is from El Paso and here is his story about.....

FOX HUNTING IN EL PASO, TEXAS by Richard Shappee, WA5HQJ

For a number of years, hidden transmitter hunts were held about monthly in El Paso. What was done was to have a 'two in one' hunt, since a separate score was given to the person who got to the location of the transmitter in the least number of miles, and another score for actually finding the hidden transmitter. A low power beacon emitted a distinctive chirp, or whine. The logic of the scoring distance for the first part of the contest was to discourage unsafe driving practices.

Waiting at the hidden site were the non-participants in the hunt, XYLs, harmonics and any others, with

the lunch and cool drinks. Often, the site would be at a park or a swimming pool, always on public property, so there would be fun and entertainment for all.

Each person contributed to the 'kitty' to buy the drinks and brought a covered dish and their entre, like our Club picnics. A prize ribbon or gag prize was awarded to the winners.

I found the hunts to be great sport and over the years the techniques and equipment used became fairly sophisticated. Even so, the winner was not necessarily the person with the fanciest equipment, as intuition plays a part in hunting.

If there is an interest in having a hunt now and then, I would be glad to try to bring it all together. If you are interested, give me a call at 682-1644 or a shout on 147.06 Happy Hunting !!

ALL ABOUT THE SHERIFF'S UNIFORMED
RESERVE GROUP
by Brad Watson WA6AEO

THE SHERIFF'S RESERVE AMATEUR RADIO UNIT IS PART OF THE CONTRA COSTA COUNTY SHERIFF'S RESERVE. IT IS A SPECIALLY TRAINED GROUP OF UNIFORMED HAM OPERATORS WHO HELP THE SHERIFF'S DEPARTMENT BY PROVIDING COMMUNICATIONS SUPPORT FOR SPECIAL EVENTS AND ACTIVITIES. WE ARE NOT POLICE OFFICERS - WE DO NOT CARRY GUNS. WE DO CARRY BADGES AND SPECIAL I.D. CARDS, AND WEAR PATCHES ON OUR UNIFORMS THAT IDENTIFY US AS SPECIALLY TRAINED SHERIFF'S RESERVE COMMUNICATORS. AND WHAT'S MORE, THE SHERIFF'S DEPARTMENT SUPPLIES THE TRAINING AND UNIFORMS, ETC.

THE GROUP HAS BEEN IN EXISTENCE FOUR YEARS. DURING THAT TIME, WE HAVE PROVIDED COMMUNICATIONS AND OTHER SUPPORT DURING PARADES, RUNS AND MORE! THIS YEAR IS OUR FIRST YEAR AT THE COUNTY FAIR, WHERE WE WILL BE WORKING WITHOUT UNIFORMS AS

A SORT OF 'EYES AND EARS' PATROL. IN ADDITION TO COMMUNICATIONS, WE ALSO DO SOME TRAFFIC CONTROL AND PUBLIC RELATIONS.

OUR MEMBERS HELP EVERY YEAR DURING "YOUR PLACE OR OURS", THE ANNUAL PROGRAM THE SHERIFF'S DEPARTMENT RUNS TO TAKE DRUNK PEOPLE HOME ON NEW YEAR'S EVE - BUT THAT'S NOT ALL, WE ARE PLANNING SEVERAL NEW AREAS INTO WHICH TO BRANCH OUT OVER THE NEXT YEAR.

IF THESE THINGS SOUND EXCITING TO YOU, PLEASE JOIN US!.....

WE ARE ACTIVELY SEEKING ENTHUSIASTIC PEOPLE TO JOIN THE UNIT. IF YOU WOULD LIKE FURTHER INFORMATION, OR GET STARTED WITH JOINING, HERE'S WHO TO CALL :

JANE WALKER, N6NVA - 458-3164

BRAD WATSON, WA6AEO - 676-8239

AS THE NUMBER OF THINGS WE'RE DOING INCREASES, WE NEED MORE PEOPLE TO STAFF THEM.

!!!!!! WE NEED YOU !!!!!

BECOME A MEMBER AND JOIN THE FUN.

Club Member DON YOUNG N6IZO, and XYL BEVERLY have moved to Wenatchee, WA. Don and Bev retired and decided to return to their home city. Their new address is 201 South Elliott Ave. #30 Wenatchee, 98801. Phone 509-622-8101 MDARC wishes them a HAPPY RETIREMENT

NEW BBS IN EAST C.C. COUNTY

If you live in east C.C. County, WA6HAM invites you to use the new WA6HAM BBS on 145.73 MHz.

MDARC MEETING VISITORS

We were very pleased to welcome the following visitors to the Club Meeting on July 20th:

K. W. (Ken) KYLE; 650 Francis Dr.,
Lafayette, CA 94549

Philip P. NOYES; 1689 Regent Dr.,
San Leandro, Ca 94577

David J. STEPNOWSKI, KC3AM; 735 W.
Birchtree Lane, Claymont, DE 19703

ARRL PACIFIC DIVISION
CABINET MEETING
by Vicki Zumwalt N6KLS
Assistant Director

On July 7, 1990 I had the pleasure of attending my first ARRL Pacific Division Cabinet meeting as Assistant Director. It was a 5-hour meeting in which many topics were discussed. There were about 25 cabinet members present, as well as Charles McConnell, our new Pacific Division Director and Rod Stafford, one of our ARRL Vice Presidents. The Section Managers gave an overview on each of their sections as well as hearing advisory committee reports.

Certainly one of the most important events discussed is the ARRL convention being held in San Jose, October 12, 13 and 14. Many forums will be available, including technical, league, contesting DX, XYL/YL and many more. This is also an excellent place to go to get a look at the new equipment coming on the market and to get good prices from the vendors present. I look forward to seeing you all at the LeBaron Hotel in October for this event.

There was discussion on the new Communicator license that is being proposed and how this may or may not effect the Novice/Technician license. We were encouraged to let all of you know to write to the FCC, if you so choose, and let them know we would like to see the Novice/Technician license to still be available for those who would like to hold that class of license. For those choosing to write the FCC we were told to emphasize to please make your comments professional and to the point.

One primary issue of the meeting was getting more Amateur Radio operators to volunteer. The league needs your help and has many openings right here in our East Bay section. I would enjoy having more of my fellow Hams sitting at the same table with me on December 1,

1990 in Livermore at our next cabinet meeting. Lets show our team effort and make the Pacific Division the best Division in our ARRL.

PACIFICON '90
THE ARRL PACIFIC DIVISION CONVENTION
OCTOBER 12,13,14
LeBaron Hotel, San Jose, Ca.

Pre-registration is \$12/ea until 10/8/90. \$15 at the door. Youths 18 and under free.

FOR THE SPOUSE AND/OR HAM:

FRIDAY 1230 bus to NASA for tour of wind tunnel, hanger and museum.

FRIDAY 2000 Gaslighter Theater Show. (Old time vaudeville and melodrama).

SATURDAY 0900 Bargain hunter express for the ladies. Bus trip to South of Market area in S.F.

SATURDAY 2000 Convention Grand Banquet. Entertainment and prize.

FOR THE HAM:

Silent auction, fox hunt, youth forum, YL forum, license tests, DX forum and others of interest.

FRIDAY EVENING opening remarks by the Director and an emergency session.

SATURDAY will have 2 sessions per hour 0900-1700. Manufacturers exhibits open at same time.

SUNDAY will have 2 sessions per hour 0900-1300 and manufacturers exhibits followed by grand prize drawings.

Send pre-registrations to:

PACIFICON '90

481 Fenley Ave., San Jose 95117

Fish or Beef banquet	\$22
Spouse shopping trip	\$19
NASA tour (limit 40)	\$ 9
Gaslight Theater	\$10

Hotel LeBaron rates:

\$57 per night S or D occupancy.
\$10 ea for up to 2 extra occupants.

For LeBaron reservations call:

800-662-9896

ask for Convention Special.

**TEACHING HELP NEEDED
FOR FALL HAM RADIO CLASSES**

The help of 3 instructors to teach Novice/Technician Code and/or Theory for the fall Ham Radio School is urgently needed. If you can help, please call Larry Gansz KB2GV, Educational Chairman, 356-2411

Educational Chairman Larry also requests help in distributing the announcements of the Ham Radio Classes... ASAP.. If you can help, please call Larry.

**NEW FALL HAM RADIO CLASSES
TO BEGIN 9-18-90**

Larry Gansz KB2GV, Educational Chairman, announced Code and Theory classes for Novice and Technician grade licenses, beginning Tuesday, September 18th.

Classes will again be held at the College Park High School, (across the street from Diablo Valley College) from 7PM to 9PM every Tuesday night for 9 weeks.

There is NO CHARGE for these classes, which are sponsored by the Mount Diablo Amateur Radio Club.

NEW TEST PROCEDURES FOR THE DISABLED

People with certain disabilities will get a break on Morse code requirements, the FCC announced recently. The new procedures will allow volunteer examiners more flexibility in administering exams to the handicapped or disabled.

Given a physician's statement attesting to the handicap or disability, examiners may be able to substitute a Morse sending test for one in receiving, and to allow spoken instead of written copy.

Other proposals are under consideration to change the present licensing structure. (ARRL)

**AN INTERESTING TOPIC
FOR THE AUGUST CLUB MEETING**

TUNING FOR MAXIMUM SMOKE DENSITY
by Don Ledwith, V.P.

The topic at the next MDARC meeting at 8:00 p.m. on Friday, August 17th at the Grace Presbyterian Church is entitled "Tuning for Maximum Smoke Density". Northgate H.S. students have built a laser with local corporate backing. They do indeed tune it by adjusting for the 'MAXIMUM SMOKE DENSITY' of the wood they're burning through.

**DON'T FORGET THE
PHOTO CONTEST AT THE AUGUST MEETING**
by Don Ledwith, V.P.

Don't forget to dig up your old photos of MDARC members in action ! Take your winning snapshot(s) of the Club Picnic or Field Day or whatever you have and enter it at the August meeting. (Please put your name or ID on the back of each picture entered)

PRIZES WILL BE AWARDED !!

This will be in addition to the maximum smoke density demonstration.

..... W A T C H F O R

A new pamphlet telling about THE MOUNT DIABLO AMATEUR RADIO CLUB written by Pete Tormey N6QGN, Club Public Relations Chairman. The Club Board of Directors has approved an initial printing of 100 copies of the pamphlet for distribution.

Topics include: 'Who We Are' and 'Where To Find Us'. It describes our Activities, Public Service interests (including RACES), Radio Classes, and much more !! Don't miss it !!

THERE ARE INTERESTING CHANGES AHEAD for the (1) W6CX REPEATER and the (2) W6CX 440 ANTENNA. The details are in the Rocky Ridge Repeater Group Minutes, this issue.

MDARC GENERAL MEETING MINUTES
July 20, 1990

Pres. Brown, N6CUK, called the meeting to order. Minutes of the previous meeting were approved. Guests and new members were introduced.

V.P. Ledwith, K7SDF, presented the T-Shirt Logo. A show of hands favored a pocket, and the cost per shirt will be \$11.00

Photo contest will be at the August 17, 1990 meeting.

Treas. Ebbett, KB6QIB, reported \$6,985.58 cash on hand.

Auction Chmn. Jones, N6PAC, announced those that signed-up to help with the auction were invited to attend the Board meeting, July 24, 1990 at Brian Rolley's.

Awards Chmn. Jane Walker, N6NVA, asked for any serious or humorous award nomination suggestions to be given at the Christmas Party. She would appreciate a call if you have someone in mind.

Carrier Editor, Stan Christian, WU6P, welcomes Amateur Radio and Club related articles submitted for publication in 'the Carrier'.

Lauren Styles, WA6CIE, gave a run-down on Field Day, the statistics are not finalized as yet.

Larry Gansz, KB2GV, Education Chmn. requested volunteer Novice, Technician, Theory and Code instructors for nine weeks of classes beginning Sept. 18, 1990. Classes are 7-9 pm, Tuesday nights, at College Park High School across from DVC.

Motion to have a promotional pamphlet printed at a cost of \$160 was made and seconded. It was written by Pete Tormey, N6QGN.

Keith Lattin, N6PMF, said ATV has a new transmitting antenna creating a larger coverage area.

Motion was passed to purchase 100 Club patches at a cost of \$175.

Membership in MDARC and RRRG for the remainder of 1990 is now half-price.

The program was "Hams Across The Water". Entertaining personal experiences were related by Dianne Brooks, N6VHI, and Wayne Merriman, WB6WZV. George Zafiropoulos, KJ6VU, from the "Lightship Relief" Radio Club, had an excellent slide presentation on the Lighthouse Society.

Respectfully submitted,
June Blenderman, N6SWP

MDARC BOARD MEETING MINUTES
July 24, 1990

Board Members Present:

President	Derek Brown	N6CUK
Vice Pres.	Don Ledwith	K7SDF
Secretary	June Blenderman	N6SWP
Treasurer	Walt Ebbett	KB6QIB
Emer. Coor.	Brian Rolley	N6TDJ
Director	Dick Brown	KT6X
Director	Jay Caldis	KT6Y

Board Members Absent: None

Committee Members Present:

Carrier	Ed Stan Christian	WU6P
Membership	George Jones	KI6YK
Field Day	Lauren Styles	WA6CIE
Auction	Paul Jones	N6PAC

Pres. Brown called the meeting to order. Minutes of the previous meeting were approved. Next Board Meeting at the home of Dick Brown August 21, 7:30 pm.

V.P. Ledwith does not have a confirmed program speaker for MDARC General meeting at this time.

Treas. Ebbett reported \$6,985.58 cash on hand.

Emer. Coor. Rolley said no improvement in the tower situation. Progress is being made in linking county sites for the Red Cross.

The following Auction Committee volunteers were requested to attend the next Board meeting on August 21: Bud Queen AA6HJ, Bert Dawson KB7BGM, Lyle Van Norman, Jay Caldis KT6Y, Dick Schulze AA6DL and Don Ledwith K7SDF.

Lauren Styles Field Day results were 1494 phone and 304 CW contacts. Motion was passed to reimburse Lauren for park fees and other Field

Day expenses.

George Jones reports membership is 347.

Respectfully submitted,
June Blenderman, N6SWP,
Secretary

THE MT. DIABLO AMATEUR RADIO CLUB
MEETS MONTHLY, 3rd FRIDAY, 8PM
at the
GRACE PRESBYTERIAN CHURCH
2100 Tice Valley Boulevard
Walnut Creek

VISITORS ARE ALWAYS WELCOME

NEXT MEETING - AUGUST 17, 1990

CLUB OFFICERS

PRESIDENT		
DEREK BROWN	N6CUK	672-2055
VICE PRESIDENT		
DON LEDWITH	K7SDF	372-7296
SECRETARY		
JUNE BLENDERMAN	N6SWP	820-0543
TREASURER		
WALTER EBBETT	KB6QIB	837-2204
EMERGENCY COORDINATOR		
BRIAN ROLLEY	N6TDJ	778-2296
DIRECTORS		
DICK BROWN	KT6X	676-9048
JAY CALDIS	KT6Y	939-1893

CLUB REPEATERS

147.06/+	223.74/-	441.325/+
(100 Hz)	(77 Hz)	(100 Hz)

CLUB NETS

ROCKY RIDGE REPEATER GROUP
Thursdays 1930 hours 147.06/+R
Jay Caldis KT6Y Net Control

AMATEUR TELEVISION NET
2000 hours (follows RRRG Net)
Mike Scott N6GOZ Net Control
Don Smith W6NKF Alternate

Club Member BRIAN GANSZ, KB6SFS (son of Larry KB2GV and Pat KC6GYR) was an entrant in the 1989 ARRL 10-Meter Contest. The story of the contest appeared in the July 1990 QST magazine on page 73. Brian's impressive score (for a Novice) was 12,690 points on 141 QSO's, appears on page 78 under 'East Bay'.

CONGRATULATIONS BRIAN !!!

PERSISTANCE PAYS

Two frogs fell into a bucket of cream
and must paddle to keep afloat,
but one soon tired and sank to rest
with a gurgling sigh in his throat.

The other paddled away all night
and not a croak did he utter,
and with the coming of the morning light
he rode on an island of butter !!

**CONTRA COSTA COUNTY
RACES/ARES NETS**

THURSDAYS . . 1900 HOURS
*CENTRAL C.C.COUNTY 145.680/S
James House, KA6IVF, E.C.
372-0345
*EAST C.C.COUNTY 146.535/S
Rick Barber, WB6EZI, E.C.
754-1610
*SOUTH C.C.COUNTY 146.355/+R
George Jones, KI6YK, E.C.
837-9316
*WEST C.C.COUNTY 145.110/-R
Rachel Lewellen, KB6LHR, E.C.
233-5034

*QSY to 147.735/-R at 1920 HOURS
MEETING OF ALL RACES/ARES NETS

CONTRA COSTA COUNTY EMERGENCY
RADIO SERVICES H.F.NET
meets monthly - 1st Thursday
following the 1st Wednesday
2000 Hours 3895 Khz
Hank Berriman, W6ZHY, A.E.C.

JULY FOURTH FIRE PATROL
by Larry Kaye W6CPO
District Emergency Coordinator
and County RACES Radio Officer

Amateur Radio again assisted the Department of Forestry and Fire Prevention with roving patrol units on the Fourth of July. While the primary purpose of the patrols is a visible deterrent to unsafe fire related activities, we also keep a watch for fires and suspicious activities. With the Fourth falling on a Wednesday this year, things were fairly quiet and we actually secured operations by about 2200. Patrols operated in the Berkeley/Oakland hills, Crocket, Briones and a number of South county areas.

Operators participating were (and I hope I didn't forget anyone): KB6EZL, KB6JZM, N6UMG, N6IUI, N6SPY, N6MNL, N6RFZ, KI6RP, AA6NM, N6ZA, W6NKF, KT6Y, WB6PQU, KI6YK, KB6UU, N6CPG, and W6CPO.

ROCKY RIDGE REPEATER GROUP MINUTES
MEETING 7/19/90

Keith N6PMF chaired in the President's absence.

OLD BUSINESS:

Treasurer's report: \$3985.82 in the bank and all bills paid.

VOTED to approve minutes of the May meeting as published in the July 'Carrier'.

NEW BUSINESS:

We have permission to put our 440 XMIT antenna at the top of the tower. We'll move up with the ATV group (a combiner will mix the transmit). The site owner will install the antennas. The system will be down only one day. VOTED to approve \$400 for the new antenna system.

A new repeater controller will permit easier control programming. Linking is difficult using the present controllers.

A new controller, an RBC-700

from Palomar-Telecom, has become available. In addition to correcting these problems, it would allow voting on 2-meters, e.g. in the vicinity of the Caldecott tunnel. The new controller will cost \$2500 - \$2600; but the sale of the two of current "Eighty-fives" would bring in \$825 each, for a net cost of around \$250. VOTED to allow Keith, our technical chair, to evaluate the RBC-700 while in L.A. and, if it meets our needs, purchase one. Installation would be around the end of September. There will be new procedures for phone calls.

Keith demo'd how long-distance calls could be made through the repeater IF you have a phone company credit card.

WELCOME TO THE NEW MEMBERS OF
ROCKY RIDGE

Al KB6KZ, Virgil VE6BDB,
Bob KA6SST, Harry K6MNV,
Clay N6YBQ, Tom N6ZLQ,
Richard W1WUH, Brad N6YUL,
Bob N6CPG.

Membership fees are at mid-year rates: MDARC dues \$7.50, Rocky Ridge membership \$12.50 and initiation/reinstatement is \$10.

Respectfully submitted
Don K7SDF, Secretary

GET YOUR OFFICIAL MDARC T-SHIRT
By Don Ledwith, V.P.

The board has funded purchase of MDARC T-shirts for the membership and as honoraria for speakers. These will be Hanes yellow beefy T's with 'AMATEUR RADIO COMMUNICATIONS' stenciled on the back ('RADIO' is emphasized). Mt. Diablo topped by a tower is part of the design.

The front has a pocket with: 'MT. DIABLO AMATEUR RADIO CLUB' stenciled above the pocket. All stencils are done in black.

We will have only large and extra large sizes for sale. The T's are 100% cotton. Cost \$11.00

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George, Mgr. WB6DSV
5 miles south on 101 from SFO

OAKLAND, CA 94606
2210 Livingston St., (415) 534-5757
Rich, Mgr. WA9WYB
IS-880 at 23rd Ave. Ramp

ANAHEIM, CA
(714) 763-3033, (213) 860-2040
ATLANTA, GA
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(602) 242-3515
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Toll free including Hawaii. Phone Hrs: 7:00 am to 5:30 p.m. Pacific Time. California, Arizona and Georgia customers call or visit nearest store. California, Arizona, Georgia and Virginia residents please add sales tax. Prices, specifications, descriptions subject to change without notice.

THE BASE STATION

YOUR CONTRA COSTA HAM HEADQUARTERS
FOR AMATEUR RADIO NEEDS

AEA	CUSHCRAFT	BALUNS
AVANTI	GORDON WEST	CALLBOOKS
ASTRON	HUSTLER	COAX CABLE
ARRL	LARSEN	CONNECTORS
AMECO	MFJ	FERRITE RODS
B&W	NYE	HAM PUBLICATIONS
BEARCAT	REGENCY	2 MTR AMPLIFIERS
BENCHER	WELZ	METERS
BUTTERNUT	YAESU	SPEAKERS

1939 EAST STREET (across from Sailer's)
CONCORD, CA 94520 (415) 685-7388



FIRST CLASS MAIL



"The CARRIER"
A Newsletter from the
MOUNT DIABLO AMATEUR RADIO CLUB
P.O. Box 23222
Pleasant Hill, California 94523



"the CARRIER" NEWSLETTER EDITOR

STAN CHRISTIAN WU6P
5450 CONCORD BLVD. #C4
CONCORD, CA 94521
(415) 672-0330

Please send contributions:
(1) by MAIL OR TELEPHONE
(2) to WU6P @ KA6FUB 144.99